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1 [Cyclone: a broadcast-free dynamic instruction scheduler with selective replay](#)



Dan Ernst, Andrew Hamel, Todd Austin

 May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(194.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To achieve high instruction throughput, instruction schedulers must be capable of producing high-quality schedules that maximize functional unit utilization while at the same time enabling fast instruction issue logic. Many solutions exist to the scheduling problem, ranging from compile-time to run-time approaches. Compile-time solutions feature fast and simple hardware, but at the expense of conservative schedules. Dynamic schedulers produce high-quality schedules that incorporate run-time info ...

2 [Borrowed-virtual-time \(BVT\) scheduling: supporting latency-sensitive threads in a general-purpose scheduler](#)



Kenneth J. Duda, David R. Cheriton

 December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Systems need to run a larger and more diverse set of applications, from real-time to interactive to batch, on uniprocessor and multiprocessor platforms. However, most schedulers either do not address latency requirements or are specialized to complex real-time paradigms, limiting their applicability to general-purpose systems. In this paper, we present *Borrowed-Virtual-Time (BVT) Scheduling*, showing that it provides low-latency for real-time and interactive applications yet weighted sharin ...

3 [The design, implementation and evaluation of SMART: a scheduler for multimedia applications](#)



Jason Nieh, Monica S. Lam

 October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press


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 Terms used **personnel scheduling**

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1 [A simulation model for evaluating personnel schedules in a hospital emergency](#)


[department](#)

Gerald W. Evans, Tesham B. Gor, Edward Unger

 November 1996 **Proceedings of the 28th conference on Winter simulation**
Publisher: ACM Press

 Full text available: [pdf\(460.60 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

2 [Personnel scheduling: a systematic approach](#)



Mary-Beth Schwarz

 December 1982 **ACM SIGUCCS Newsletter**, Volume 12 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(297.32 KB\)](#) Additional Information: [full citation](#), [abstract](#)

In today's society one finds computers being quickly assimilated into every aspect of life. This rise in computer use is reflected in the growth of university computing facilities. User education and assistance as well as site surveillance and maintenance can no longer be provided by a small group of people. At the University of Delaware there are two main sites for the computing community. Consulting services are provided at two locations for more than one hundred and fifty hours each week. Abo ...

3 [Tutorial: scheduling manufacturing systems with FACTOR](#)

David Krah

 December 1991 **Proceedings of the 23rd conference on Winter simulation**
Publisher: IEEE Computer Society

 Full text available: [pdf\(321.85 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Simulation-based capacity planning and scheduling with AutoSched](#)



Michael B. Thompson

 December 1993 **Proceedings of the 25th conference on Winter simulation**
Publisher: ACM Press

 Full text available: [pdf\(743.93 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)


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 Terms used **dynamic personnel scheduling**

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1 [The dynamics of software project scheduling](#)



Tarek K. Abdel-Hamid, Stuart E. Madnick

 May 1983 **Communications of the ACM**, Volume 26 Issue 5

Publisher: ACM Press

 Full text available: [pdf\(728.24 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software project scheduling is one of the major problem areas faced by software project managers today. While several quantitative software project resource and schedule estimation methods have been developed, such techniques raise some important, but as yet unresolved, dynamic issues. A systems dynamics (SD) approach is used to analyze several key dynamic software project scheduling issues.

Keywords: computer simulation, software project scheduling, system dynamics

2 [System dynamics modeling of an inspection-based process](#)



Raymond J. Madachy

 May 1996 **Proceedings of the 18th international conference on Software engineering**

Publisher: IEEE Computer Society

 Full text available: [pdf\(1.18 MB\)](#)

[Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A dynamic simulation model of an inspection-based software lifecycle process has been developed to support quantitative process evaluation. The model serves to examine the effects of inspection practices on cost, scheduling and quality throughout the lifecycle. It uses system dynamics to model the interrelated flows of tasks, errors and personnel throughout different development phases and is calibrated to industrial data. It extends previous software project dynamics research by examining an in ...

Keywords: calibration, cost estimation, development phases, dynamic process factors, error flows, human resource management, industrial data, inspection, inspection policies, inspection-based software lifecycle process, knowledge based systems, knowledge-based method, managerial policies, manpower allocation, personnel, personnel flows, process evaluation, project management, project planning, quality, quality control, quantitative process evaluation, risk assessment, risk management, scheduling, software cost estimation, software development management, software project dynamics, system dynamics modeling, task flows


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1 [Static and Dynamic Variable Voltage Scheduling Algorithms for Real-Time Heterogeneous Distributed Embedded Systems](#)

Jiong Luo, Niraj K. Jha

 January 2002 **Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design**
Publisher: IEEE Computer Society

Full text available: pdf(209.34 KB)

 Additional Information: [full citation](#), [abstract](#), [citations](#)

[Publisher Site](#)

This paper addresses the problem of static and dynamic variable voltage scheduling of multi-rate periodic task graphs (i.e., tasks with precedence relationships) and aperiodic tasks in heterogeneous distributed real-time embedded systems. Such an embedded system may contain general-purpose processors, field-programmable gate arrays (FPGAs) and application-specific integrated circuits (ASICs). Variable voltage scheduling is performed only on general-purpose processors. The static scheduling algorithm ...

Keywords: low-power, scheduling, real-time systems, embedded systems

2 [Space shuttle main engine component assembly, assignment, and scheduling expert system](#)

W. E. Dietz, H. J. Ferber, M. Ali

 June 1989 **Proceedings of the 2nd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '89**
Publisher: ACM Press

Full text available: pdf(743.57 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Space Shuttle utilizes several rocket engine systems, all of which must function with a high degree of reliability for successful mission completion. The Space Shuttle Main Engine (SSME) is by far the most complex of the rocket engine systems. In earlier spacecraft, rocket systems (and, in fact, the entire spacecraft) were designed for use on only a single mission and were discarded after use. In a major departure from earlier practices, almost all systems on the Space Shuttle, includin ...

3 [Power-Manageable Scheduling Technique for Control Dominated High-Level Synthesis](#)

C. Chen, M. Sarrafzadeh


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 Terms used **call center scheduling**

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1 [General applications: Call center scheduling technology evaluation using simulation](#)

Sandeep Gulati, Scott A. Malcolm

 December 2001 **Proceedings of the 33rd conference on Winter simulation**

Publisher: IEEE Computer Society

 Full text available: [pdf\(167.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Telemarketers, direct marketing agencies, collection agencies and others whose primary means of customer contact is via the telephone invest considerable sums of money to make the calling operation efficient and productive. Investments are required in human resources, infrastructure and technology. Having invested the dollars, businesses want to ensure that value is maximized. Call scheduling algorithms provide an efficient method to maximize customer contact. However, management at a large, nat ...

2 [Advanced tutorials: Call center simulations: call center simulation modeling: methods, challenges, and opportunities](#)

Vijay Mehrotra, Jason Fama

 December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

 Full text available: [pdf\(569.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Using stochastic models to plan call center operations, schedule call center staff efficiently, and analyze projected performance is not a new phenomenon, dating back to Erlang's work in the early twentieth century. However, several factors have recently conspired to increase demand for call center simulation analysis.

- Increasing complexity in call traffic, coupled with the almost ubiquitous use of Skill-Based Routing.
- Rapid change in operations due to increased me ...

3 [Simulation of a claims call center: a success and a failure](#)



Roger Klungle

 December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2**

Publisher: ACM Press

 Full text available: [pdf\(74.37 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S22 5	21	("4400587" "4893301" "5144653" "5185780" "5206903" "5291550" "5291551" "5299260" "5309513" "5392345" "5425093" "5459780" "5499291" "5768360" "5778060" "5815666" "5825869" "6005932" "6081592" "6278978" "6366665"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/20 08:26
S22 4	54	(schedul\$3 NEAR2 personnel) AND tolerance\$1	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:20
S22 3	448	(schedul\$3 NEAR2 personnel)	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:20
S22 2	55	((call ADJ center\$1) NEAR2 schedul\$3)	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:19
S22 1	7	(schedul\$3 NEAR system\$1) AND tolerance\$1 AND (soft NEAR2 (constraint\$1 rule\$1))	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:18
S22 0	20	(schedul\$3 NEAR system\$1) SAME tolerance\$1	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:17
S21 9	1	(schedul\$3 NEAR system\$1) AND ((soft) NEAR2 (rule\$1 constraint\$1)) AND ((hard) NEAR2 (rule\$1 constraint\$1)) AND (call ADJ center\$1)	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:14
S21 8	31	(schedul\$3 NEAR system\$1) AND ((soft) NEAR2 (rule\$1 constraint\$1)) AND ((hard) NEAR2 (rule\$1 constraint\$1))	US-PGPUB; USPAT	OR	OFF	2005/12/20 08:01
S21 7	37	(schedul\$3 NEAR system\$1) AND ((soft) NEAR2 (rule\$1 constraint\$1))	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:58
S21 4	46	(schedul\$3 NEAR system\$1) SAME ((creat\$4 generat\$4 defin\$4 build\$3 compos\$3 produc\$3 establish\$3 construct\$4) NEAR2 (rule\$1 constraint\$1))	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:58
S21 6	4	((schedul\$3 NEAR system\$1) SAME ((creat\$4 generat\$4 defin\$4 build\$3 compos\$3 produc\$3 establish\$3 construct\$4) NEAR2 (rule\$1 constraint\$1))) AND tolerance\$1	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:54
S21 5	0	((schedul\$3 NEAR system\$1) SAME ((creat\$4 generat\$4 defin\$4 build\$3 compos\$3 produc\$3 establish\$3 construct\$4) NEAR2 (rule\$1 constraint\$1))) SAME tolerance\$1	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:54

S21 3	771	((creat\$4 generat\$4 defin\$4 build\$3 compos\$3 produc\$3 establish\$3 construct\$4) NEAR2 (rule\$1 constraint\$1))	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:54
S21 2	6163	(schedul\$3 NEAR system\$1)	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:51
S21 1	3	((("5590322") or ("5592668") or ("5802255")).PN.	US-PGPUB; USPAT	OR	OFF	2005/12/20 07:51
S21 0	11	((creat\$6 generat\$6 mak\$4 compos\$4 defin\$4) NEAR rule\$1) SAME schedul\$4) AND (exception\$1 NEAR3 rule\$1)	USPAT	OR	OFF	2005/12/12 10:25
S20 9	0	self\$1referential SAME schedul\$5	USPAT	OR	OFF	2005/12/12 10:25
S20 8	0	self\$1referential NEAR2 constraint	USPAT	OR	OFF	2005/12/12 10:25
S20 7	0	self\$1referential NEAR2 constraint	USPAT	OR	OFF	2005/12/12 10:25
S20 6	0	((creat\$6 generat\$6 mak\$4 compos\$4 defin\$4) NEAR rule\$1) SAME schedul\$4 AND self\$1referential	USPAT	OR	OFF	2005/12/12 10:25
S20 5	11	((creat\$6 generat\$6 mak\$4 compos\$4 defin\$4) NEAR rule\$1) SAME schedul\$4 SAME constraint\$1	USPAT	OR	OFF	2005/12/12 10:25
S20 4	204	((creat\$6 generat\$6 mak\$4 compos\$4 defin\$4) NEAR rule\$1) SAME schedul\$4	USPAT	OR	OFF	2005/12/12 10:25
S20 3	100	((creat\$6 generat\$6 mak\$4 compos\$4) NEAR rule\$1) SAME schedul\$4	USPAT	OR	OFF	2005/12/12 10:25
S20 2	56	(resource ADJ allocation) SAME tree\$1	USPAT	OR	OFF	2005/12/12 10:25
S20 1	6	("4852001" "5111391" "5164897" "5182705" "5325292" "5408663").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/12 10:25
S20 0	110	("5111391").URPN.	USPAT	OR	OFF	2005/12/12 10:25
S19 9	4	((("5325292") or ("5111391") or ("5369570") or ("5195172")).PN.	USPAT	OR	OFF	2005/12/12 10:25
S19 8	188	schedul\$5 SAME tree\$1 SAME (creat\$6 generat\$6)	USPAT	OR	OFF	2005/12/12 10:25
S19 7	1	("6278978").PN.	USPAT	OR	OFF	2005/12/12 10:25
S19 6	185	resource ADJ scheduling	USPAT	OR	OFF	2005/12/12 10:25
S19 5	156	build\$3 NEAR rules	USPAT	OR	OFF	2005/12/12 10:25

S19 4	199	(715/507).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S19 3	185	resource ADJ scheduling	USPAT	OR	OFF	2005/12/12 10:25
S19 2	156	build\$3 NEAR rules	USPAT	OR	OFF	2005/12/12 10:25
S19 1	199	(715/507).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S19 0	2	((("4905163") or ("5968115")).PN.	USPAT	OR	OFF	2005/12/12 10:25
S18 9	10	form SAME (field NEAR5 ((drop\$1down "drop down") ADJ (box\$2 list\$1)))	USPAT	OR	OFF	2005/12/12 10:25
S18 8	64	(decision ADJ tree) SAME ((enter\$1 input\$1) ADJ (data information))	USPAT	OR	OFF	2005/12/12 10:25
S18 7	16	branch ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
S18 6	25	branching ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
S18 5	34	(creat\$4 NEAR3 profile\$1) SAME hierarch\$5	USPAT	OR	OFF	2005/12/12 10:25
S18 4	31	scheduler NEAR5 interactive	USPAT	OR	OFF	2005/12/12 10:25
S18 3	34	"5119476".URPN.	USPAT	OR	OFF	2005/12/12 10:25
S18 2	12	(build\$3 NEAR rules) SAME form	USPAT	OR	OFF	2005/12/12 10:25
S18 1	10	form SAME (field NEAR5 ((drop\$1down "drop down") ADJ (box\$2 list\$1)))	USPAT	OR	OFF	2005/12/12 10:25
S18 0	64	(decision ADJ tree) SAME ((enter\$1 input\$1) ADJ (data information))	USPAT	OR	OFF	2005/12/12 10:25
S17 9	16	branch ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
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S17 7	34	(creat\$4 NEAR3 profile\$1) SAME hierarch\$5	USPAT	OR	OFF	2005/12/12 10:25
S17 6	31	scheduler NEAR5 interactive	USPAT	OR	OFF	2005/12/12 10:25
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S17 4	12	(build\$3 NEAR rules) SAME form	USPAT	OR	OFF	2005/12/12 10:25
S17 3	1	form SAME fill SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25

S17 2	1	resource ADJ scheduling ADJ system	USPAT	OR	OFF	2005/12/12 10:25
S17 1	1	form SAME fill SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25
S17 0	1	resource ADJ scheduling ADJ system	USPAT	OR	OFF	2005/12/12 10:25
S16 9	181	form SAME ((drop\$1down "drop down") ADJ (box\$2 list\$1))	USPAT	OR	OFF	2005/12/12 10:25
S16 8	234	form SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25
S16 7	1843	decision ADJ tree	USPAT	OR	OFF	2005/12/12 10:25
S16 6	0	(branching ADJ rule\$1) SAME (enter\$3 NEAR2 (data information info))	USPAT	OR	OFF	2005/12/12 10:25
S16 5	6986	creat\$4 NEAR3 profile\$1	USPAT	OR	OFF	2005/12/12 10:25
S16 4	165	scheduler SAME interactive	USPAT	OR	OFF	2005/12/12 10:25
S16 3	7310	scheduler	USPAT	OR	OFF	2005/12/12 10:25
S16 2	286	build\$3 NEAR2 rules	USPAT	OR	OFF	2005/12/12 10:25
S16 1	140	(715/505).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S16 0	181	form SAME ((drop\$1down "drop down") ADJ (box\$2 list\$1))	USPAT	OR	OFF	2005/12/12 10:25
S15 9	234	form SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25
S15 8	1843	decision ADJ tree	USPAT	OR	OFF	2005/12/12 10:25
S15 7	0	(branching ADJ rule\$1) SAME (enter\$3 NEAR2 (data information info))	USPAT	OR	OFF	2005/12/12 10:25
S15 6	6986	creat\$4 NEAR3 profile\$1	USPAT	OR	OFF	2005/12/12 10:25
S15 5	165	scheduler SAME interactive	USPAT	OR	OFF	2005/12/12 10:25
S15 4	7310	scheduler	USPAT	OR	OFF	2005/12/12 10:25
S15 3	286	build\$3 NEAR2 rules	USPAT	OR	OFF	2005/12/12 10:25
S15 2	140	(715/505).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S15 1	2	((("4905163") or ("5968115"))).PN.	USPAT	OR	OFF	2005/12/12 10:25
S15 0	185	resource ADJ scheduling	USPAT	OR	OFF	2005/12/12 10:25

S14 9	156	build\$3 NEAR rules	USPAT	OR	OFF	2005/12/12 10:25
S14 8	199	(715/507).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S14 7	10	form SAME (field NEAR5 ((drop\$1down "drop down") ADJ (box\$2 list\$1)))	USPAT	OR	OFF	2005/12/12 10:25
S14 6	64	(decision ADJ tree) SAME ((enter\$1 input\$1) ADJ (data information))	USPAT	OR	OFF	2005/12/12 10:25
S14 5	16	branch ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
S14 4	25	branching ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
S14 3	34	(creat\$4 NEAR3 profile\$1) SAME hierarch\$5	USPAT	OR	OFF	2005/12/12 10:25
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S14 1	34	"5119476".URPN.	USPAT	OR	OFF	2005/12/12 10:25
S14 0	12	(build\$3 NEAR rules) SAME form	USPAT	OR	OFF	2005/12/12 10:25
S13 9	1	form SAME fill SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25
S13 8	1	resource ADJ scheduling ADJ system	USPAT	OR	OFF	2005/12/12 10:25
S13 7	181	form SAME ((drop\$1down "drop down") ADJ (box\$2 list\$1))	USPAT	OR	OFF	2005/12/12 10:25
S13 6	234	form SAME (present\$2 NEAR2 options)	USPAT	OR	OFF	2005/12/12 10:25
S13 5	1843	decision ADJ tree	USPAT	OR	OFF	2005/12/12 10:25
S13 4	0	(branching ADJ rule\$1) SAME (enter\$3 NEAR2 (data information info))	USPAT	OR	OFF	2005/12/12 10:25
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S13 2	165	scheduler SAME interactive	USPAT	OR	OFF	2005/12/12 10:25
S13 1	7310	scheduler	USPAT	OR	OFF	2005/12/12 10:25
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S12 9	140	(715/505).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
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S12 7	10	form SAME (field NEAR5 ((drop\$1down "drop down") ADJ (box\$2 list\$1)))	USPAT	OR	OFF	2005/12/12 10:25
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S12 0	1	resource ADJ scheduling ADJ system	USPAT	OR	OFF	2005/12/12 10:25
S11 9	25	branching ADJ rule\$1	USPAT	OR	OFF	2005/12/12 10:25
S11 8	0	(branching ADJ rule\$1) SAME (enter\$3 NEAR2 (data information info))	USPAT	OR	OFF	2005/12/12 10:25
S11 7	34	(creat\$4 NEAR3 profile\$1) SAME hierarch\$5	USPAT	OR	OFF	2005/12/12 10:25
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S11 4	165	scheduler SAME interactive	USPAT	OR	OFF	2005/12/12 10:25
S11 3	7310	scheduler	USPAT	OR	OFF	2005/12/12 10:25
S11 2	34	"5119476".URPN.	USPAT	OR	OFF	2005/12/12 10:25
S11 1	12	(build\$3 NEAR rules) SAME form	USPAT	OR	OFF	2005/12/12 10:25
S11 0	156	build\$3 NEAR rules	USPAT	OR	OFF	2005/12/12 10:25
S10 9	286	build\$3 NEAR2 rules	USPAT	OR	OFF	2005/12/12 10:25
S10 8	140	(715/505).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25
S10 7	199	(715/507).CCLS.	USPAT; USOCR	OR	OFF	2005/12/12 10:25